

Weekly SARS-CoV-2 Sequencing Summary for the State of Maine

June 25th, 2021

SUMMARY

Critical updates

- 4239 genomes sampled between March 10, 2020 and June 18, 2021 are included in the analysis
- 667 B.1.1.7 (alpha) Variant of Concern have been identified (5.2% increase in new cases since 6/18 update)
- 5 B.1.351 (beta) Variant of Concern have been identified (0 new case since 6/18 update)
- 4 B.1.617.2 (delta) Variant of Interest have been identified (0 new cases since 6/18 update)
- 86 P.1 (gamma) Variant of Concern have been identified (8.9% increase in new cases since 6/18 update)

Notable Updates

- Increases in P.1 mirrors a regional trend observed in neighboring states during the past two months.

IMPORTANCE

- Variants of Concern have increased transmission
- Variants of Concern have increased severity of disease based on hospitalization and case fatality rates
- Variants of Concern have decreased susceptibility to therapeutic agents such as monoclonal antibodies
- Variants of Concern could evade natural or vaccine-induced immunity

CAVEATS and CONCERNS

- County information is missing in this analysis for 46.2% of samples sequenced externally (e.g. CDC).
- Weekly biases exist due to uneven sampling across the state
- Need to reduce location bias by sequencing more samples from varying facilities and laboratories
- Turnaround times need to decrease to inform infection control practices
- Phylogenetic tree has no county metadata. Public release of county or aggregated-county metadata will aid regional analysis
- Phylogenetic tree has no PHI (an internal tree with PHI should be constructed)

REFERENCES

<https://nextstrain.org/community/tewhey-lab/ncov-ME/latest>

<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/variant-info.html>

<https://covariants.org/>

<https://outbreak.info/situation-reports>

<https://nextstrain.org/>

<https://github.com/tewhey-lab/ncov-ME>

Variant	WHO Label	Category	Cumulative Count	March 2021	April 2021	May 2021	June 2021
P.1	Gamma	VOC	86	0.8%	5.4%	4.6%	0.0%
B.1.351	Beta	VOC	5	0.3%	0.2%	0.0%	0.0%
B.1.1.7	Alpha	VOC	667	9.2%	33.5%	41.1%	28.0%
B.1.427	Epsilon	VOC	4	0.1%	0.1%	0.0%	0.0%
B.1.429	Epsilon	VOC	137	8.9%	2.4%	1.5%	2.0%
B.1.617.2	Delta	VOC	4	0.0%	0.1%	0.4%	0.0%
B.1.525	Eta	VOI	8	1.0%	0.1%	0.0%	0.0%
B.1.526	Iota	VOI	916	18.7%	42.8%	50.1%	60.0%
B.1.617.1	Kappa	VOI	0	0.0%	0.0%	0.0%	0.0%
B.1.617.3	Zeta	VOI	0	0.0%	0.0%	0.0%	0.0%
P.2	Zeta	VOI	100	7.8%	0.7%	0.0%	0.0%
Total VOI/VOC Sequenced			1927	341	754	665	45
Total Cases Sequenced			4136	729	883	681	50

Table 1: Proportion of cases sequenced classified as a variant of interest or concern by month.

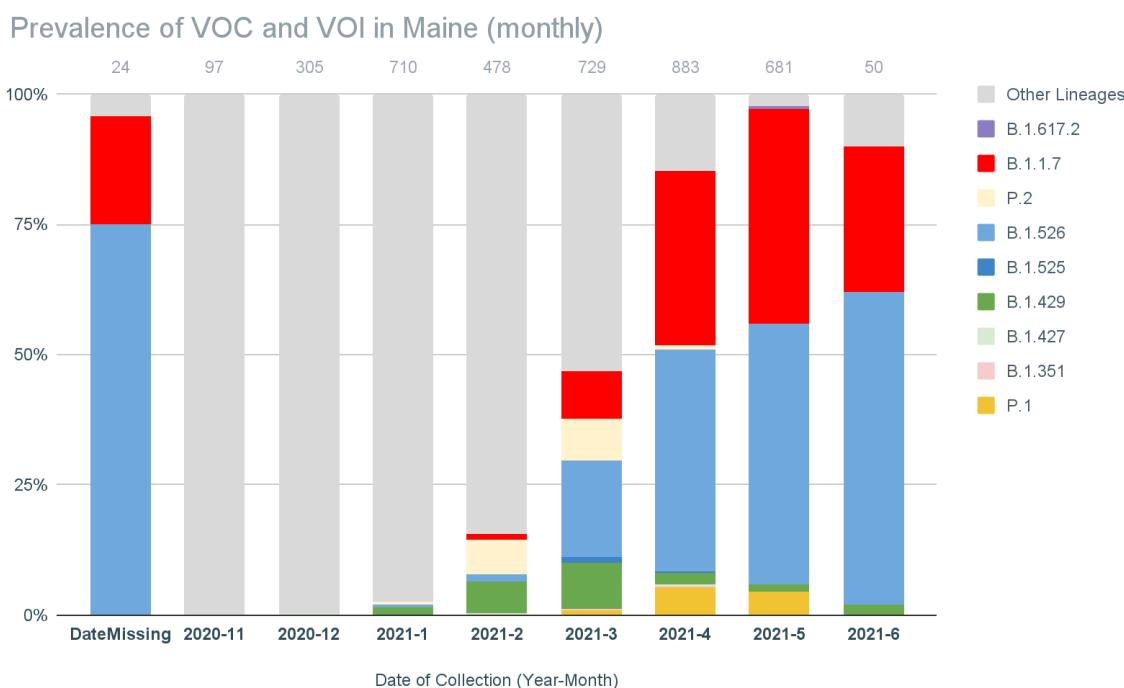


Figure 1: Proportion of samples typed as VOC and VOI by month. Samples represented as “DateMissing” only includes samples sequenced in the past 60 days.

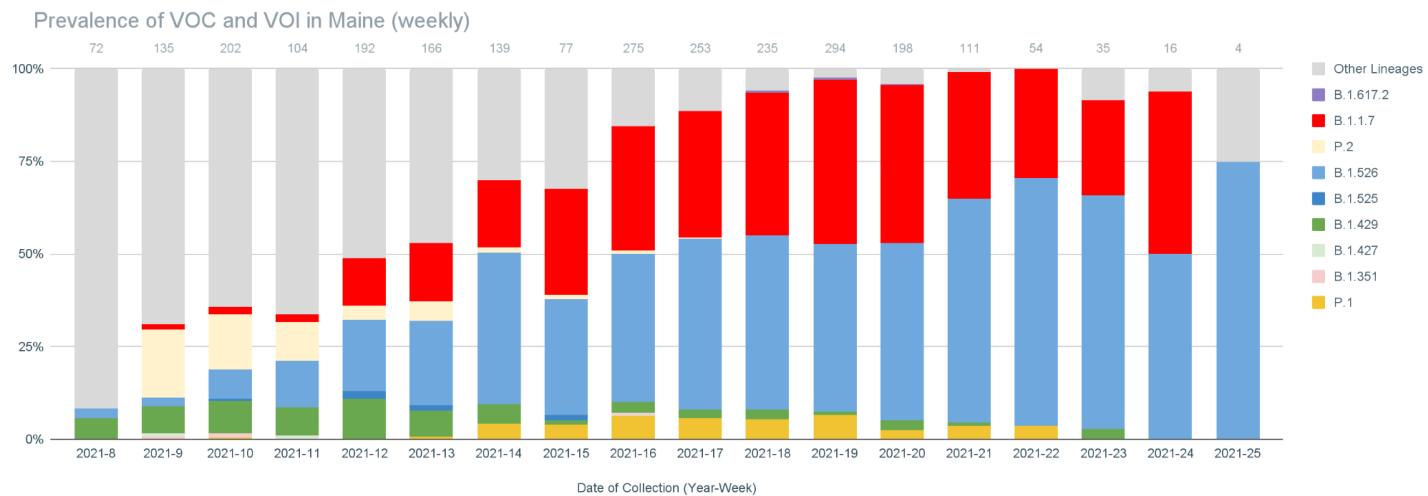


Figure 2: Proportion of samples typed as VOC and VOI by week.

Mutation	Gene	Category	Cumulative Count	March 2021	April 2021	May 2021	June 2021
S:E484K	Spike	Substitution	377	11.9%	15.9%	12.9%	16.0%
S:L452R	Spike	Substitution	450	18.0%	14.8%	18.2%	22.0%

Table 2: Proportion of cases sequenced with substitutions of therapeutic concern

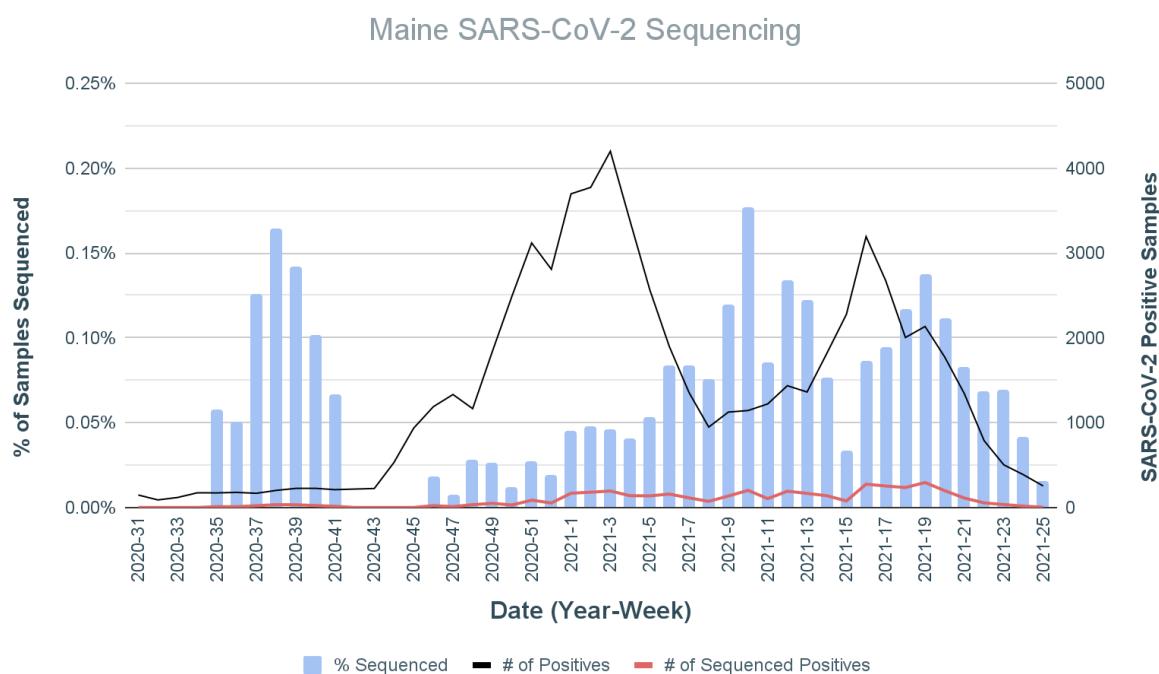


Figure 3: Proportion of COVID-19 positive samples sequenced.

Sample Collection Date	JAX	HETL	CDC	Other
Missing Date	47	0	0	0
Pre-Sept 2020	119	0	0	8
Sept 2020	113	0	0	0
Oct 2020	19	0	0	0
Nov 2020	97	0	0	0
Dec 2020	291	0	12	2
Jan 2021	602	0	88	20
Feb 2021	339	13	115	11
Mar 2021	482	16	212	19
Apr 2021	442	83	341	17
May 2021	314	59	298	10
June 2021	35	0	13	2

Table 3: Total number of samples sequenced. Only Sequences passing quality metrics are included. CDC totals include samples from federal contracts (LabCorp, Helix, Broad) and 10 samples requested from HETL every 2 weeks via the NS3 surveillance program. 26 samples are unreported due to missing collection dates.

	Total	05/23/21 -	05/30/21 -	06/06/21 -	06/13/21 -
		05/29/21	06/05/21	06/12/21	06/19/21
Total number of cases sequenced	4136	54	35	16	4
Total positive tests by molecular testing	53202	N/A	N/A	N/A	N/A
Total positive tests	75747	788	503	386	254
Percent of positives sequenced (molecular)	7.77%	-	-	-	-
Percent of positives sequenced (total)	5.46%	6.85%	6.96%	4.15%	1.57%

Table 4: Total proportion of positive tests sequenced.

Supplemental Table 1: VOC/VOI proportion and total counts by county. Sequences obtained through GISAID (CDC, HETL, Other) are not included in the by-county breakdown.

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
P.1	ANDROSCOGGIN	1.5% (9)	0% (0)	1.4% (2)	5.7% (7)	0% (0)
P.1	AROOSTOOK	9.7% (13)	0% (0)	13.6% (3)	52.6% (10)	0% (0)
P.1	CUMBERLAND	2.0% (15)	0.7% (1)	8.4% (11)	3.4% (3)	0% (0)
P.1	FRANKLIN	1.2% (1)	7.7% (1)	0% (0)	0% (0)	0% (0)
P.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	KENNEBEC	1.4% (4)	0% (0)	4.3% (2)	3.0% (2)	0% (0)
P.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	OXFORD	2.0% (4)	1.8% (1)	6.5% (3)	0% (0)	0% (0)
P.1	PENOBCOT	2.4% (9)	0% (0)	13.2% (5)	6.5% (4)	0% (0)
P.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	WALDO	2.0% (1)	4.8% (1)	0% (0)	0% (0)	0% (0)
P.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1	YORK	1.9% (8)	0% (0)	6.4% (6)	2.5% (2)	0% (0)
P.1	Total (w/ county information)	1.9% (64)	0.7% (4)	5.2% (32)	4.9% (28)	0% (0)
P.1	Total	2.1% (86)	0.8% (6)	5.4% (48)	4.6% (31)	0% (0)
B.1.351	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	CUMBERLAND	0.1% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	LINCOLN	4.2% (2)	25.0% (2)	0% (0)	0% (0)	0% (0)
B.1.351	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	YORK	0.2% (1)	0% (0)	1.1% (1)	0% (0)	0% (0)
B.1.351	Total (w/ county information)	0.1% (4)	0.3% (2)	0.2% (1)	0% (0)	0% (0)
B.1.351	Total	0.1% (5)	0.3% (2)	0.2% (2)	0% (0)	0% (0)
B.1.1.7	ANDROSCOGGIN	18.7% (116)	7.4% (4)	47.5% (66)	35.2% (43)	50.0% (3)
B.1.1.7	AROOSTOOK	6.7% (9)	0% (0)	27.3% (6)	15.8% (3)	0% (0)
B.1.1.7	CUMBERLAND	15.0% (111)	7.7% (11)	45.8% (60)	46.0% (40)	0% (0)
B.1.1.7	FRANKLIN	13.6% (11)	15.4% (2)	83.3% (5)	27.3% (3)	0% (0)
B.1.1.7	HANCOCK	10.0% (7)	9.1% (1)	40.0% (4)	33.3% (2)	0% (0)
B.1.1.7	KENNEBEC	11.3% (32)	4.1% (2)	13.0% (6)	30.3% (20)	44.4% (4)
B.1.1.7	KNOX	12.2% (6)	0% (0)	33.3% (1)	57.1% (4)	100.0% (1)
B.1.1.7	LINCOLN	47.9% (23)	0% (0)	60.0% (6)	81.0% (17)	0% (0)
B.1.1.7	OXFORD	15.2% (30)	12.5% (7)	13.0% (6)	50.0% (14)	75.0% (3)
B.1.1.7	PENOBCOT	11.2% (42)	4.5% (2)	26.3% (10)	48.4% (30)	0% (0)
B.1.1.7	SAGADAHOC	21.4% (12)	5.9% (1)	25.0% (3)	50.0% (8)	0% (0)
B.1.1.7	SOMERSET/PISCATAQUIS	12.9% (23)	3.6% (1)	27.5% (14)	26.9% (7)	0% (0)
B.1.1.7	WALDO	9.8% (5)	0% (0)	33.3% (1)	50.0% (4)	0% (0)
B.1.1.7	WASHINGTON	7.3% (4)	14.3% (1)	0% (0)	50.0% (3)	0% (0)
B.1.1.7	YORK	20.2% (86)	13.6% (16)	37.2% (35)	40.7% (33)	16.7% (1)
B.1.1.7	Total (w/ county information)	15.4% (517)	8.1% (48)	36.1% (223)	40.8% (231)	30.8% (12)
B.1.1.7	Total	16.1% (667)	9.2% (67)	33.5% (296)	41.1% (280)	28.0% (14)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
B.1.427	ANDROSCOGGIN	0.2% (1)	0% (0)	0.7% (1)	0% (0)	0% (0)
B.1.427	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	CUMBERLAND	0.3% (2)	0.7% (1)	0% (0)	0% (0)	0% (0)
B.1.427	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	HANCOCK	1.4% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	Total (w/ county information)	0.1% (4)	0.2% (1)	0.2% (1)	0% (0)	0% (0)
B.1.427	Total	0.1% (4)	0.1% (1)	0.1% (1)	0% (0)	0% (0)
B.1.429	ANDROSCOGGIN	1.6% (10)	14.8% (8)	0% (0)	1.6% (2)	0% (0)
B.1.429	AROOSTOOK	8.2% (11)	0% (0)	22.7% (5)	31.6% (6)	0% (0)
B.1.429	CUMBERLAND	5.0% (37)	12.0% (17)	2.3% (3)	2.3% (2)	0% (0)
B.1.429	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	KENNEBEC	2.1% (6)	8.2% (4)	2.2% (1)	0% (0)	0% (0)
B.1.429	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	OXFORD	2.0% (4)	7.1% (4)	0% (0)	0% (0)	0% (0)
B.1.429	PENOBCOT	4.8% (18)	22.7% (10)	5.3% (2)	0% (0)	0% (0)
B.1.429	SAGADAHOC	3.6% (2)	5.9% (1)	0% (0)	0% (0)	100.0% (1)
B.1.429	SOMERSET/PISCATAQUIS	0.6% (1)	3.6% (1)	0% (0)	0% (0)	0% (0)
B.1.429	WALDO	2.0% (1)	4.8% (1)	0% (0)	0% (0)	0% (0)
B.1.429	WASHINGTON	1.8% (1)	0% (0)	14.3% (1)	0% (0)	0% (0)
B.1.429	YORK	3.1% (13)	5.9% (7)	5.3% (5)	0% (0)	0% (0)
B.1.429	Total (w/ county information)	3.1% (104)	8.9% (53)	2.8% (17)	1.8% (10)	2.6% (1)
B.1.429	Total	3.3% (137)	8.9% (65)	2.4% (21)	1.5% (10)	2.0% (1)
B.1.525	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	FRANKLIN	3.7% (3)	23.1% (3)	0% (0)	0% (0)	0% (0)
B.1.525	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	OXFORD	2.0% (4)	7.1% (4)	0% (0)	0% (0)	0% (0)
B.1.525	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	YORK	0.2% (1)	0% (0)	1.1% (1)	0% (0)	0% (0)
B.1.525	Total (w/ county information)	0.2% (8)	1.2% (7)	0.2% (1)	0% (0)	0% (0)
B.1.525	Total	0.2% (8)	1.0% (7)	0.1% (1)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
B.1.526	ANDROSCOGGIN	23.5% (146)	18.5% (10)	42.4% (59)	57.4% (70)	50.0% (3)
B.1.526	AROOSTOOK	3.7% (5)	0% (0)	22.7% (5)	0% (0)	0% (0)
B.1.526	CUMBERLAND	17.0% (126)	21.8% (31)	32.8% (43)	48.3% (42)	100.0% (7)
B.1.526	FRANKLIN	14.8% (12)	15.4% (2)	16.7% (1)	72.7% (8)	100.0% (1)
B.1.526	HANCOCK	11.4% (8)	0% (0)	40.0% (4)	50.0% (3)	100.0% (1)
B.1.526	KENNEBEC	31.4% (89)	20.4% (10)	71.7% (33)	63.6% (42)	44.4% (4)
B.1.526	KNOX	28.6% (14)	76.9% (10)	33.3% (1)	42.9% (3)	0% (0)
B.1.526	LINCOLN	16.7% (8)	0% (0)	40.0% (4)	19.0% (4)	0% (0)
B.1.526	OXFORD	30.8% (61)	28.6% (16)	67.4% (31)	46.4% (13)	25.0% (1)
B.1.526	PENOBCOT	12.0% (45)	2.3% (1)	39.5% (15)	43.5% (27)	100.0% (2)
B.1.526	SAGADAHOC	33.9% (19)	11.8% (2)	75.0% (9)	50.0% (8)	0% (0)
B.1.526	SOMERSET/PISCATAQUIS	25.3% (45)	7.1% (2)	49.0% (25)	69.2% (18)	0% (0)
B.1.526	WALDO	15.7% (8)	14.3% (3)	66.7% (2)	37.5% (3)	0% (0)
B.1.526	WASHINGTON	21.8% (12)	71.4% (5)	42.9% (3)	50.0% (3)	0% (0)
B.1.526	YORK	24.9% (106)	28.8% (34)	30.9% (29)	49.4% (40)	50.0% (3)
B.1.526	Total (w/ county information)	20.9% (704)	21.2% (126)	42.7% (264)	50.2% (284)	56.4% (22)
B.1.526	Total	22.1% (916)	18.7% (136)	42.8% (378)	50.1% (341)	60.0% (30)
B.1.526.1	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
B.1.617.2	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	OXFORD	1.0% (2)	0% (0)	2.2% (1)	3.6% (1)	0% (0)
B.1.617.2	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	YORK	0.5% (2)	0% (0)	0% (0)	2.5% (2)	0% (0)
B.1.617.2	Total (w/ county information)	0.1% (4)	0% (0)	0.2% (1)	0.5% (3)	0% (0)
B.1.617.2	Total	0.1% (4)	0% (0)	0.1% (1)	0.4% (3)	0% (0)
B.1.617.3	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.3	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	ANDROSCOGGIN	0.3% (2)	3.7% (2)	0% (0)	0% (0)	0% (0)
P.2	AROOSTOOK	3.7% (5)	14.3% (2)	0% (0)	0% (0)	0% (0)
P.2	CUMBERLAND	0.7% (5)	2.8% (4)	0% (0)	0% (0)	0% (0)
P.2	FRANKLIN	1.2% (1)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	HANCOCK	22.9% (16)	54.5% (6)	0% (0)	0% (0)	0% (0)
P.2	KENNEBEC	0.7% (2)	4.1% (2)	0% (0)	0% (0)	0% (0)
P.2	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	LINCOLN	8.3% (4)	50.0% (4)	0% (0)	0% (0)	0% (0)
P.2	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	PENOBCOT	3.2% (12)	11.4% (5)	2.6% (1)	0% (0)	0% (0)
P.2	SAGADAHOC	3.6% (2)	11.8% (2)	0% (0)	0% (0)	0% (0)
P.2	SOMERSET/PISCATAQUIS	14.6% (26)	50.0% (14)	0% (0)	0% (0)	0% (0)
P.2	WALDO	3.9% (2)	9.5% (2)	0% (0)	0% (0)	0% (0)
P.2	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	Total (w/ county information)	2.3% (77)	7.2% (43)	0.2% (1)	0% (0)	0% (0)
P.2	Total	2.4% (100)	7.8% (57)	0.7% (6)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	March 2021	April 2021	May 2021	June 2021
	ANDROSCOGGIN	45.8% (284)	44.4% (24)	92.1% (128)	100.0% (122)	100.0% (6)
	AROOSTOOK	32.1% (43)	14.3% (2)	86.4% (19)	100.0% (19)	0% (0)
	CUMBERLAND	40.0% (297)	45.8% (65)	89.3% (117)	100.0% (87)	100.0% (7)
	FRANKLIN	34.6% (28)	61.5% (8)	100.0% (6)	100.0% (11)	100.0% (1)
	HANCOCK	45.7% (32)	63.6% (7)	80.0% (8)	83.3% (5)	100.0% (1)
	KENNEBEC	47.0% (133)	36.7% (18)	91.3% (42)	97.0% (64)	88.9% (8)
	KNOX	40.8% (20)	76.9% (10)	66.7% (2)	100.0% (7)	100.0% (1)
	LINCOLN	77.1% (37)	75.0% (6)	100.0% (10)	100.0% (21)	0% (0)
	OXFORD	53.0% (105)	57.1% (32)	89.1% (41)	100.0% (28)	100.0% (4)
	PENOBCOT	33.6% (126)	40.9% (18)	86.8% (33)	98.4% (61)	100.0% (2)
	SAGADAHOC	62.5% (35)	35.3% (6)	100.0% (12)	100.0% (16)	100.0% (1)
	SOMERSET/PISCATAQUIS	53.4% (95)	64.3% (18)	76.5% (39)	96.2% (25)	0% (0)
	WALDO	33.3% (17)	33.3% (7)	100.0% (3)	87.5% (7)	0% (0)
	WASHINGTON	30.9% (17)	85.7% (6)	57.1% (4)	100.0% (6)	0% (0)
	YORK	51.1% (217)	48.3% (57)	81.9% (77)	95.1% (77)	66.7% (4)
Total VOI/VOC Sequenced	Total (w/ county information)	44.2% (1486)	47.7% (284)	87.5% (541)	98.2% (556)	89.7% (35)
Total VOI/VOC Sequenced	Total	45.5% (1927)	46.8% (341)	85.4% (754)	97.7% (665)	90.0% (45)
	ANDROSCOGGIN	620	54	139	122	6
	AROOSTOOK	134	14	22	19	1
	CUMBERLAND	742	142	131	87	7
	FRANKLIN	81	13	6	11	1
	HANCOCK	70	11	10	6	1
	KENNEBEC	283	49	46	66	9
	KNOX	49	13	3	7	1
	LINCOLN	48	8	10	21	0
	OXFORD	198	56	46	28	4
	PENOBCOT	375	44	38	62	2
	SAGADAHOC	56	17	12	16	1
	SOMERSET/PISCATAQUIS	178	28	51	26	0
	WALDO	51	21	3	8	0
	WASHINGTON	55	7	7	6	0
	YORK	425	118	94	81	6
Total Cases Sequenced	Total (w/ county information)	3365	595	618	566	39
Total Cases Sequenced	Total	4239	729	883	681	50